



#### ABSTRACT OF THE DISCLOSURE

A refining element for use in the refining of fibrous materials is disclosed in which the refining surface includes an inner portion and an outer portion defining a transition region between these two portions, a plurality of bars and grooves in the inner portion of the refining surface, and a plurality of bars and intermediate grooves in the outer portion of the refining surface, the bars in the inner surface having a greater width than those in the outer surface, and the transition region having a varying distance from the inner edge of the refining element across the refining surface.